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Soluciones de impresión - Gestión documental



Managed Print Specialist Premier
Services Specialist - Printing



Copiadoras Innovadas Partner Premier HP

Más de 30 años de experiencia en el sector ofimático asesorando a nuestros clientes para cubrir todas sus necesidades de impresión y gestión documental.

**HP COLOR
LASERJET Pro
serie M452**

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HP Color LaserJet Pro M452 series



Stunning speed. Solid security.

Ideal printing performance and solid security for how you work. This capable colour printer finishes jobs faster and delivers comprehensive security to guard against threats.¹ Original HP Toner cartridges with JetIntelligence produce more pages.²



HP LaserJet Pro M452dn



HP LaserJet Pro M452dn with optional 550-sheet tray

Highlights

- 27 ppm black/ 27 ppm colour
- Colour first page out 9.9sec
- Leading duplex print speed of 24 ipm
- HP Auto-On/Auto-Off for low energy consumption
- Confidential PIN Printing
- HP ePrint, AirPrint, Google Cloud Print, Wi-Fi Direct, Mopria-certified, Mobile Apps
- Optional 550-sheet tray
- High-yield black/colour cartridges (6500/5000 pages)

Fast printing. Strong protection.

- Grab pages and go – without waiting around. This printer wakes up and prints faster than the competition.¹
- Breeze through multipage documents with two-sided printing that's faster than leading competitors.¹
- Protect information and control access to confidential print jobs with optional PIN printing.
- Help keep printing safe from boot up to shutdown with security features that guard against complex threats.

More. Pages, Performance, and Protection.

- Get the most prints for your money – with Original HP High Yield Colour Toner cartridges with JetIntelligence.²
- Count on professional quality at high speeds with HP ColorSphere 3 toner.
- Help ensure you're getting the authentic HP quality you paid for with innovative anti-fraud technology.
- Print right away with preinstalled toner cartridges. Replace them with optional high-yield cartridges.

Easy management. Efficient printing.

- Easily manage devices and settings using HP Web Jetadmin with a suite of essential management features.³
- Print using less energy than competitors – enhanced by Original HP Toner cartridges with JetIntelligence.⁴

Stay connected with easy mobile printing options

- Easily print from a variety of smartphones and tablets – generally no setup or apps required.⁵
- Count on wireless direct printing in the office – from mobile devices – without accessing the company network.⁶
- Easily access, print, and share resources with Ethernet and wireless networking.⁷



Wireless



Wireless direct



ePrint



Precision black toner



Auto on/off



Auto wireless connect

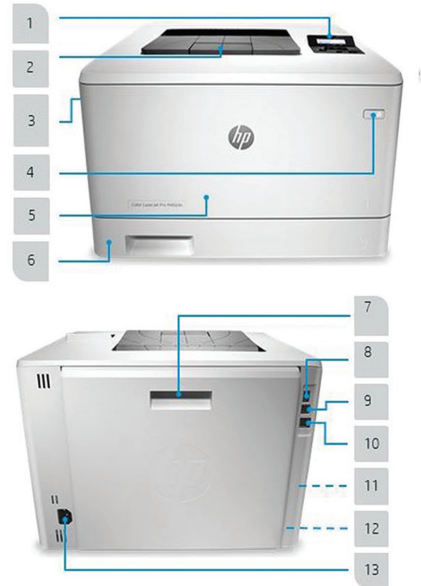


Instant-on technology

Product walkaround

HP Color LaserJet Pro M452dn shown

1. 2-line LCD control panel
2. 150-sheet output bin
3. Front door release button (access to HP JetIntelligence Toner cartridges)
4. Power on/off button
5. 50-sheet multipurpose tray 1
6. 250-sheet tray 2
7. Rear door (provides access to print path)
8. USB port for job storage and PIN printing
9. Hi-Speed USB 2.0 printing port
10. Ethernet port
11. Automatic two-sided printing
12. 1.2 GHz processor
13. Power connection



Series at a glance



Model	HP Color LaserJet Pro M452nw	HP Color LaserJet Pro M452dn
Product number	CF388A	CF389A
Colour print speed, A4	Up to 27 ppm	Up to 27 ppm
Duplex printing	Manual	Automatic
Control panel	2-line LCD	2-line LCD
Standard/maximum input	300/850 sheets	300/850 sheets
Networking	Gigabit Ethernet, wireless 802.11b/g/n	Gigabit Ethernet
Mobile printing capability	Wireless direct printing, HP ePrint, Apple AirPrint, Mopria-certified, Google Cloud Print™ 2.0	HP ePrint, Apple AirPrint, Mopria-certified, Google Cloud Print 2.0

Accessories, Supplies and Support

Supplies	CF252XM HP 410X 3-pack High Yield Cyan/Magenta/Yellow Original LaserJet Toner Cartridges Per cartridge: 5,000 pages
	CF410A HP 410A Black Original LaserJet Toner Cartridge 2,300 pages
	CF410X HP 410X High Yield Black Original LaserJet Toner Cartridge 6,500 pages
	CF410XD HP 410X 2-pack High Yield Black Original LaserJet Toner Cartridges Per cartridge: 6,500 pages
	CF411A HP 410A Cyan Original LaserJet Toner Cartridge 2,300 pages
	CF411X HP 410X High Yield Cyan Original LaserJet Toner Cartridge 5,000 pages
Accessories	CF404A HP LaserJet 550-sheet Feeder Tray
Connectivity	HPUNIVPRNTDRV HP Universal Print Driver
	HPWEBJETADMIN HP Web Jetadmin
Service and support	U8TN1E HP 3 year Next business day Color LaserJet M452 Hardware Support
	U8TN5E HP 3 year Return Color LaserJet M452 Service
	U8TN6PE HP 1 year Post Warranty Next business day Color LaserJet M452 Hardware Support
	U8TN8PE HP 1 year Post Warranty Return Color LaserJet M452 Service

Technical specifications

Model	HP Color LaserJet Pro M452nw	HP Color LaserJet Pro M452dn
Product number	CF388A	CF389A
Function	Print	
Control panel	2-line backlit LCD graphic display; 5 buttons (Cancel, Select, Reverse, Right/Left arrows); LED indicator lights (Attention, Ready)	2-line backlit LCD graphic display; 5 buttons (Cancel, Select, Reverse, Right/Left arrows); LED indicator lights (Attention, Ready)
Print		
Print technology	Laser	
Print speed ¹	Black (A4, normal): Up to 27 ppm; Colour (A4, normal): Up to 27 ppm; Black (A4, duplex): Up to 24 ipm	
First page out ²	Black (A4, ready): As fast as 9.0 sec; Colour (A4, ready): As fast as 9.9 sec; Black (A4, sleep): As fast as 11.4 sec; Colour (A4, sleep): As fast as 11.5 sec	
Print resolution	Black (best): 600 x 600 dpi, up to 38400 x 600 enhanced dpi; Colour (best): 600 x 600 dpi, up to 38400 x 600 enhanced dpi; Technology: HP ImageREt 3600, PANTONE® calibrated	
Monthly duty cycle ³	Up to 50,000 pages (A4); Recommended monthly page volume ⁴ : 750 to 4000	
Printer smart software features ⁵	N-up printing; Collation; HP ePrint; Apple AirPrint™; Mopria certified; Google Cloud Print; Wireless direct printing; HP Auto-On/Auto-Off Technology; Job Storage with PIN printing	N-up printing; Collation; HP ePrint, Apple AirPrint™; Mopria certified; Google Cloud Print; HP Auto-On/Auto-Off Technology; Job Storage with PIN printing
Standard print languages	HP PCL 6, HP PCL 5c, HP Postscript Level 3 emulation, PDF, URF, PCLm, native Office, PWG Raster	
Fonts and typefaces	84 scalable TrueType fonts	
Print area	Print margins: Top: 4.23 mm, Bottom: 4.23 mm, Left: 4.23 mm, Right: 4.23 mm	
Duplex printing	Automatic (standard)	Manual (driver support provided)
Processor speed	1200 MHz	
Connectivity		
Standard	Hi-Speed USB 2.0 port; Built-in Gigabit Ethernet 10/100/1000 Base-TX network port; Easy-access USB	
Wireless	Yes, built-in Wi-Fi; Authentication via WEP, WPA/WPA2, WPA Enterprise; Encryption via AES or TKIP; WPS; Wi-Fi Direct Printing	No
Mobile printing capability	HP ePrint; Apple AirPrint™; Mopria™-certified; NFC Touch-to-print; Wireless Direct Printing; Google Cloud Print 2.0; Mobile Apps	HP ePrint; Apple AirPrint™; Mopria™-certified; Google Cloud Print 2.0; Mobile Apps
Supported network protocols	TCP/IP, IPv4, IPv6; Print: TCP-IP port 9100 Direct Mode, LPD (raw queue support only), Web Services Printing, HP ePrint, Apple AirPrint™, Google Cloud Print 2.0, Mopria, FTP Print, IPP Print; Discovery: SLP, Bonjour, Web Services Discovery; IP Config: IPv4 (BootP, DHCP, AutoIP, Manual), IPv6 (Stateless Link-Local and via Router, Statefull via DHCPv6), SSL Security and Certificate management; Management: SNMPv1, SNMPv2, SNMPv3, HTTP/HTTPS, Syslog, FTP FW Download	
Network capabilities	Yes, via built-in 10/100/1000Base-TX Ethernet, Gigabit; Auto-crossover Ethernet; Authentication via 802.1X	
Memory	Standard: 256 MB NAND Flash, 128 MB DRAM; Maximum : 256 MB NAND Flash, 128 MB DRAM	Standard: 256 MB NAND Flash, 128 MB DRAM; Maximum : 256MB NAND Flash, 128MB DRAM
Media handling		
Number of paper trays	Standard: 2; Maximum: 3	
Media types	Paper (bond, brochure, coloured, glossy, letterhead, photo, plain, preprinted, prepunched, recycled, rough), postcards, labels, envelopes	
Media size	Custom (metric): Tray 1: 76 x 127 to 216 x 356 mm; Tray 2, optional Tray 3: 100 x 148 to 216 x 356 mm Supported (metric): Tray 1, Tray 2: A4, A5, A6, B5 (JIS), B6 (JIS), 16K (195 x 270 mm, 184 x 260 mm, 197 x 273 mm), 10 x 15 cm, Oficio (216 x 340 mm), postcards (JIS single, JIS double), envelopes (DL, C5, B5); Optional Tray 3: A4, A5, A6, B5 (JIS), B6 (JIS), 16K (195 x 270 mm, 184 x 260 mm, 197 x 273 mm), 10 x 15 cm, Oficio (216 x 340 mm), postcards (JIS single, JIS double); Automatic duplexer: A4, B5, 16K (195 x 270 mm, 184 x 260 mm, 197 x 273 mm), Oficio (216 x 340 mm)(HP LJ Pro M452dn only)	
Media handling	Standard input: 50-sheet multipurpose tray, 250-sheet input tray Standard output: 150-sheet output bin Optional input: Optional 550-sheet tray	
Media weight	Tray 1: 60 to 176 g/m ² (up to 200 g/m ² with postcards and HP Color Laser Glossy Photo Papers); Tray 2: 60 to 163 g/m ² (up to 176 g/m ² with postcards, up to 200 g/m ² HP Color Laser Glossy Photo Papers); Optional Tray 3: 60 to 163 g/m ² (up to 176 g/m ² with postcards, up to 150 g/m ² glossy media); Automatic duplexer: 60 to 163 g/m ² ; ADF: Tray 1: 60 to 176 g/m ² (up to 200 g/m ² with postcards and HP Color Laser Glossy Photo Papers); Tray 2: 60 to 163 g/m ² (up to 176 g/m ² with postcards, up to 200 g/m ² HP Color Laser Glossy Photo Papers); Optional Tray 3: 60 to 163 g/m ² (up to 176 g/m ² with postcards, up to 150 g/m ² glossy media); Automatic duplexer: 60 to 163 g/m ²	
Input capacity	Tray 1: Sheets: 50; Envelopes: 5 Maximum: Up to 850 sheets (with optional 550-sheet tray)	
Output capacity	Standard: Up to 150 sheets Envelopes: Up to 20 envelopes Maximum: Up to 150 sheets	
Compatible operating systems	Windows OS compatible with In-Box Driver: Windows 10 all 32 & 64-bit editions (excluding RT OS for tablets), Windows 8/8.1 all 32 & 64-bit editions (excluding RT OS for tablets), Windows 7 all 32 & 64-bit editions, Windows Vista all 32-bit editions (Home Basic, Premium, Professional, etc); Windows OS compatible with Universal Print Driver (from HP.com): Windows 10 all 32 & 64-bit editions (excluding RT OS for tablets), Windows 8/8.1 all 32 & 64-bit editions (excluding RT OS for tablets), Windows 7 all 32 & 64-bit editions, Windows Vista all 32 & 64-bit editions (Home Basic, Premium, Professional, etc); Mac OS (HP print drivers available from http://www.hp.com and Apple Store): OS X 10.7 Lion, OS X 10.8 Mountain Lion, OS X 10.9 Mavericks, OS X 10.10 Yosemite; Mobile OS (In-OS drivers): iOS, Android, Windows 8/8.1/10 RT; Linux OS (In-OS HPLIP): SUSE Linux (12.2, 12.3, 13.1), Fedora (17, 18, 19, 20), Linux Mint (13, 14, 15, 16, 17), Boss (3.0, 5.0), Ubuntu (10.04, 11.10, 12.04, 12.10, 13.04, 13.10, 14.04, 14.10), Debian (6.0.x, 7.x); Other OS: UNIX	

Model	HP Color LaserJet Pro M452nw	HP Color LaserJet Pro M452dn
Product number	CF388A	CF389A
Compatible network operating systems	Windows OS compatible with In-Box Driver: Windows Server 2008 R2 64-bit (SP1) Standard/Enterprise (+ Cluster & Terminal Services), Windows Server 2003/2003 R2 32-bit (SP1/SP2) Standard/Enterprise (+ Cluster & Terminal Services); Windows OS compatible with Universal Print Driver (UPD) or product-specific drivers from HP.com: Windows Server 2012/2012 R2 64-bit Standard/Foundation/Essentials/Datacenter (+ Cluster & Terminal Services), Windows Server 2008/2008 R2 32 & 64-bit (SP1/SP2) Standard/Enterprise/Datacenter (+ Cluster & Terminal Services), Windows Server 2003/2003 R2 32 & 64-bit (SP1/SP2) Standard/Enterprise/Datacenter (+ Cluster & Terminal Services); Citrix (on Windows Server 2003/2003 R2): Citrix MetaFrame Presentation Server 3.0, Citrix MetaFrame XP Presentation Server (Feature Release 1, 2 and 3), Citrix Presentation Server 4.0/4.5, Citrix XenApp 5.0 (Plus Feature Pack 2 & 3); Citrix (on Windows Server 2008/2008 R2): Citrix XenApp 5.0 (Plus Feature Pack 2 & 3), Citrix XenApp 6.0/6.5/7.5, Citrix XenDesktop 5.6/7.0/7.5; Citrix (on Windows Server 2012/2012 R2): Citrix XenApp 7.5, Citrix XenDesktop 7.0/7.5; Novell Servers (http://www.novell.com/iprint): Novell iPrint Appliance v1.0, Novell Open Enterprise Server 11/SP1, Novell Open Enterprise Server 2 for Linux; NetWare 6.5/SP8; Novell Clients (http://www.novell.com/iprint): Windows 8 (32 & 64-bit) recommend v5.86+, 8.1 recommend v5.94+, Windows 7 (32 & 64-bit) recommend v5.82+, Windows Vista (32 & 64-bit) recommend v5.82+, Windows XP/SP3 (32-bit only) recommend v5.82+	
Minimum system requirements	Windows: Windows Vista (32 & 64-bit) or newer, 233 MHz processor or higher, 512 MB RAM, 400 MB available hard disk space, CD-ROM or Internet, USB or network connection; Mac: Mac OS X v 10.7 or newer, Internet, USB or network connection, 1 GB available hard disk space	
Software included	For Windows OS: HP Software Installer/Uninstaller, HP PCL 6 Printer Driver, HP Device Experience (DXP), HP Update, Product Registration Assist, HP Web Services Assist (HP Connected), HP Device Toolbox, HP Product Improvement Study, Online user manuals (software varies by OS: Windows XP/Vista: driver only, Windows 7: full solution, Windows 8+ and newer: drivers only with more apps available in MS App store); For Mac OS: Welcome Screen (directs users to http://www.HP.com or OS App Source for LaserJet Software)	
Security management	Embedded Web Server: password-protection, secure browsing via SSL/TLS; Network: enable/disable network ports and features, SNMPv1 & SNMPv2 community password change; HP ePrint: HTTPS with certificate validation, HTTP Basic Access Authentication, SASL authentication; Firewall and ACL; SNMPv3, 802.1X, Secure Boot, authentication via WEP, WPA/WPA2 Personal, WPA2 Enterprise; Encryption via AES or TKIP	Embedded Web Server: password-protection, secure browsing via SSL/TLS; Network: enable/disable network ports and features, SNMPv1 & SNMPv2 community password change; HP ePrint: HTTPS with certificate validation, HTTP Basic Access Authentication, SASL authentication; Firewall and ACL; SNMPv3, 802.1X, Secure Boot
Printer management	Printer Administrator Resource Kit (Driver Configuration Utility, Driver Deployment Utility, Managed Printing Administrator); HP Web JetAdmin Software; HP Proxy Agent Software; HP Imaging and Printing Security Center; HP Utility (Mac); HP Device Toolbox (Win 7)	
Dimensions and Weight		
Printer dimensions (W x D x H)	Minimum: 412 x 469 x 295 mm; Maximum: 412 x 649 x 340 mm	Minimum: 412 x 453 x 295 mm; Maximum: 412 x 633 x 295 mm
Package dimensions (W x D x H)	497 x 379 x 583 mm	
Printer weight ⁶	18.9 kg	17.5 kg
Package weight	22.0 kg	20.7 kg
Operating environment	Temperature: 15 to 30°C; Humidity: 20 to 70% RH (non-condensing)	
Storage	Temperature: -20 to 40°C; Humidity: 10 to 95% RH (non-condensing)	
Acoustics⁷	Acoustic power emissions: 6.3 B(A); Acoustic pressure emissions: 49 dB(A)	
Power⁸	Requirements: Input voltage: 220 to 240 VAC (+/- 10%), 50/60 Hz (+/- 3 Hz); Consumption: 570 watts (printing), 17.6 watts (ready), 2.4 watts (sleep), 0.6 watts (Auto-On/Auto-Off, via USB connectivity), 0.05 watts (off); Power supply type: Built-in power supply	
Energy savings feature technology	HP Auto-On/Auto-Off Technology; Instant-on Technology	
Certifications	CISPR 22:2008 (Class B); EN 55022:2010 (Class B); EN 61000-3-2:2006 +A1:2009 +A2:2009; EN 61000-3-3:2008; EN 55024:2010; Other EMC approvals as required by individual countries	CISPR 22:2008 (Class B); EN 55022:2010 (Class B); EN 61000-3-2:2006 +A1:2009 +A2:2009; EN 61000-3-3:2008; EN 55024:2010; Other EMC approvals as required by individual countries ENERGY STAR [®] qualified; EPEAT [®] Silver; CECP; Blue Angel RAL-UZ 205
What's in the box⁹	HP Color LaserJet Pro M452nw Printer; 4 preinstalled Introductory HP 410A LaserJet Toner cartridges (Black, Cyan, Magenta, Yellow: 1,200 pages); Getting Started Guide; Install poster; Software drivers and documentation on CD-ROM; Power cord; USB cable	HP Color LaserJet Pro M452dn Printer; 4 preinstalled Introductory HP 410A LaserJet Toner cartridges (Black, Cyan, Magenta, Yellow: 1,200 pages); Getting Started Guide; Install poster; Software drivers and documentation on CD-ROM; Power cord
Warranty	One-year warranty. Warranty and support options vary by product, country and local legal requirements. Go to http://www.hp.com/support to learn about HP award winning service and support options in your region.	

Footnotes

- ¹ Based on HP internal testing of top three leading competitors' first page out from sleep mode and duplex print speed completed 8/2015. Subject to device settings. Actual results may vary. For details see <http://www.hp.com/go/Ljclaims>.
- ² Based on cartridge yields for HP 305X compared with HP 410X Original HP LaserJet Toner Cartridges. For more information, see <http://www.hp.com/go/learnaboutsupplies>.
- ³ HP Web Jetadmin is free and available for download at <http://www.hp.com/go/webjetadmin>.
- ⁴ Based on HP testing using the ENERGY STAR® program's Typical Electricity Consumption (TEC) method or as reported in energystar.gov of top three leading competitors as of 8/2015. Actual results may vary. For details see <http://www.hp.com/go/Ljclaims>.
- ⁵ Wireless operations are compatible with 2.4 GHz operations only. App or software and HP ePrint account registration may also be required. Some features require purchase of an optional accessory. Learn more at <http://www.hp.com/go/mobileprinting>.
- ⁶ Feature is only supported by the HP Color LaserJet Pro M452nw. Mobile device needs to be connected directly to the Wi-Fi network of a wireless direct-capable MFP or printer prior to printing. Depending on mobile device, an app or driver may also be required. Learn more at <http://www.hp.com/go/businessmobileprinting>.
- ⁷ Feature is only supported by the HP Color LaserJet Pro M452nw. Wireless performance is dependent on physical environment and distance from access point, and may be limited during active VPN connections.

Technical specifications disclaimers

- ¹ Measured using ISO/IEC 24734, excludes first set of test documents. For more information, see <http://www.hp.com/go/printerclaims>. Exact speed varies depending on the system configuration, software application, driver, and document complexity.
- ² Measured using ISO/IEC 17629. For more information, see <http://www.hp.com/go/printerclaims>. Exact speed varies depending on the input voltage, system configuration, software application, driver, and document complexity.
- ³ Duty cycle is defined as the maximum number of pages per month of imaged output. This value provides a comparison of product robustness in relation to other HP LaserJet or HP Colour LaserJet devices, and enables appropriate deployment of printers and MFPs to satisfy the demands of connected individuals or groups.
- ⁴ HP recommends that the number of printed pages per month be within the stated range for optimum device performance, based on factors including supplies replacement intervals and device life over an extended warranty period.
- ⁵ Job Storage feature requires a purchase of separate USB flash drive with a minimum of 16 GB capacity.
- ⁶ With toner cartridges.
- ⁷ Acoustic values are subject to change. For current information, see <http://www.hp.com/support>. Configuration tested: base model, simplex printing, A4 paper at an average of 27 ppm.
- ⁸ Typical Electricity Consumption (TEC) rating represents the typical electricity consumed by a product during 1 week, measured in kilowatt-hours (kWh).
- ⁹ Declared cartridge yield value in accordance with ISO/IEC 19752. Actual yields vary considerably based on images printed and other factors. For more information, visit <http://www.hp.com/go/learnaboutsupplies>. HP Colour LaserJet Pro M452 in-box cartridge may have higher yield than stated for printer units manufactured before 2017.



<http://www.hp.com/uk>

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